

FIG. 1A

FIG. 1B

FIG. 1C

FIG. 1D

FIG. 1E

FIG. 1F

FIG. 1

1 GGATCCTGGT CGCGAGCGCG CCGCCCAGCC ACCTGCCGGC GCGCCCCGCC

GGGACCGCTC GAGGACGCCT CGCGAAGGCT CTAGGGGCTG TATCTTCAAG

101 AGTCTACGCC CCTTTGTTGC AGTGCACAAA TTTCCGTGCT AGCTTCATGC

"-35"

TATCACGCCC CAGACGAGGA AGATTACCG ^{*phaE*} TGAACGATAC GGCCAACAAG
S/D V N D T A N K

201 ACCAGCGACT GGCTGGACAT CCAACGCAAG TACTGGGAGA CCTGGTCGGA
T S D W L D I Q R K Y W E T W S E

GCTCGGCCGC AAGACCTTGG GTCTGGAGAA GACCCCGGCC AATCCTTGGG
L G R K T L G L E K T P A N P W A

301 CCGGCGCCCT CGATCATTGG TGGCAGACGG TCTCGCCCGC CGCCCCAAC
G A L D H W W Q T V S P A A P N

GACCTGGTTC GCGACTTCAT GGAGAAGCTC GCCGAGCAGG GCAAGGCCTT
D L V R D F M E K L A E Q G K A F

401 CTTCGGCCTC ACCGACTACT TCACGAAGGG CCTCGGCGGC AGTAGCGGTA
F G L T D Y F T K G L G G S S G T

CGCAGGGCTG GGACACCCTC TCGAAGACCA TCGACGACAT GCAAAAGGCC
Q G W D T L S K T I D D M Q K A

FIG. 1A

501 TTCGCCAGCG GCCGGATCGA AGGCGACGAG ACCTTCCGCC GCCTGATGGC
 F A S G R I E G D E T F R R L M A

 CTTCTGGGAG ATGCCGCTCG ACAACTGGCA GCGCACCATG TCCTCGCTGT
 F W E M P L D N W Q R T M S S L S

 601 CCCCGGTGCC CGGCGACCTG CTGCGCAACA TGCCGCACGA CCAAGTCAGG
 P V P G D L L R N M P H D Q V R

 GACAGCGTCG ACCGCATCCT CTCGGCACCC GGGCTCGGCT ACACGCGCGA
 D S V D R I L S A P G L G Y T R E

 701 GGAGCAGGCC CGCTACCAGG ATCTGATCCG CCGCTCGCTG GAGTACCAGT
 E Q A R Y Q D L I R R S L E Y Q S

 CGGCCCTGAA CGAATACAAC GGCTTCTTCG GCCAGCTCGG TGTCAAGTCC
 A L N E Y N G F F G Q L G V K S

 801 CTCGAGCGGA TGCGCGCCTT CCTGCAGGGA CAGGCCGAGA AGGGCGTCGC
 L E R M R A F L Q G Q A E K G V A

 CATCGAGTCG GCGCGCACCC TCTACGACGC CTGGGTCGGC TGCTGCGAAG
 I E S A R T L Y D A W V G C C E E

 901 AGGTCTATGC CGAGGAGGTC AGCTCCGCCG ACTACGCGCA CATCCACGGC
 V Y A E E V S S A D Y A H I H G

 CGCCTCGTCA ACGCCCAGAT GGCCCTCAAG CAGCGCATGT CGACCATGGT
 R L V N A Q M A L K Q R M S T M V

FIG. 1B

1501 CCCGGCGCAG GTGGCGACCC AGACGATCCC GCTGCTGATC GTCTACGCCC
 P A Q V A T Q T I P L L I V Y A L

 TCGTCAATCG GCCCTACATG ACCGACATCC AGGAGGATCG CTCGACGATC
 V N R P Y M T D I Q E D R S T I

 1601 AAGGGCCTGC TCGCCACCGG TCAGGACGTC TATCTGATCG ACTGGGGCTA
 K G L L A T G Q D V Y L I D W G Y

 CCCGGATCAG GCCGACCGGG CGCTGACCCT CGATGACTAC ATCAACGGCT
 P D Q A D R A L T L D D Y I N G Y

 1701 ACATCGACCG CTGCGTCGAC TACCTGCGCG AGACCCACGG CGTCGACCAG
 I D R C V D Y L R E T H G V D Q

 GTCAACCTGC TCGGGATCTG CCAGGGCGGG GCCTTCAGCC TCTGCTACAC
 V N L L G I C Q G G A F S L C Y T

 1801 GGCCCTGCAC TCCGAGAAGG TCAAAAACCT CGTCACCATG GTCACGCCGG
 A L H S E K V K N L V T M V T P V

 TCGACTTCCA GACCCCGGGC AACCTGCTCT CGGCCTGGGT CCAGAACGTC
 D F Q T P G N L L S A W V Q N V

 1901 GACGTCGACC TGGCCGTCGA CACCATGGGC AACATCCCGG GCGAACTGCT
 D V D L A V D T M G N I P G E L L

 CAACTGGACC TTCCTGTCGC TCAAGCCCTT CAGCCTGACC GGCCAGAAGT
 N W T F L S L K P F S L T G Q K Y

FIG. 1D

2001 ACGTCAACAT GGTCGACCTG CTCGACGACG AGGACAAGGT CAAGAACTTC
V N M V D L L D D E D K V K N F

CTGCGGATGG AGAAGTGGAT CTTGACAGC CCGGACCAGG CCGGCGAGAC
L R M E K W I F D S P D Q A G E T

2101 CTTCCGCCAG TTCATCAAGG ACTTCTACCA GCGCAACGGC TTCATCAACG
F R Q F I K D F Y Q R N G F I N G

GCGGCGTCCT GATCGGCGAT CAGGAGGTCG ACCTGCGCAA CATCCGCTGC
G V L I G D Q E V D L R N I R C

2201 CCGGTCCTGA ACATCTACCC GATGCAGGAC CACCTGGTGC CGCCGGATGC
P V L N I Y P M Q D H L V P P D A

CTCCAAGGCC CTCGCGGGAC TGACCTCCAG CGAGGACTAC ACGGAGCTCG
S K A L A G L T S S E D Y T E L A

2301 CCTTCCCCGG CGGGCACATC GGCATCTACG TCAGCGGCAA GGCGCAGGAA
F P G G H I G I Y V S G K A Q E

GGAGTCACCC CGGCGATCGG CCGCTGGCTG AACGAACGCG GCTGAGCCGG
G V T P A I G R W L N E R G *

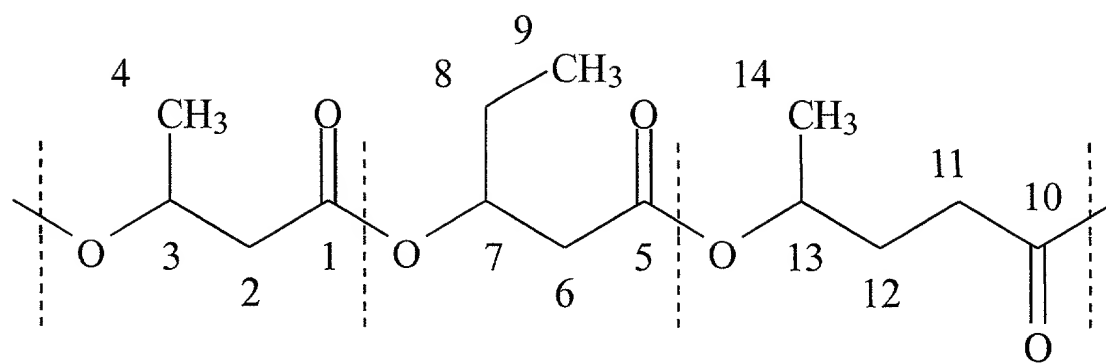
2401 GTCGACCCAC CCGCTCGACG GGCGCGGCCG GCGGCATCGA AGGCCGCCGG

CCGGCGCCCA TGAGCCATCC GCGCCGCTGG CGCCCGCCCC CCGACCTTCG

FIG. 1E

2501 CCGCCGCACC CGCATCGCCC CCGCGGCTGG CGTACAATGA CGGTCTTCGC
GAGCGAGCCC CGCATCGTCA ACGGAGGCTG CATGGGCGCC GACCACCAAC
2601 TGCTGGCCGC GTACGACGCG CTGGCCGAGA CCTACGACGC CCACCGCGGC
CTCTTCGACA TGC GCGCCGT GCTCGAGGAC ATCTTCGCCC GCCTGCCGGC
2701 CTGCGGCACC CTCCTCGACC TCGGCTGCGG CGCCGGGGAG CCGTGCGCGC
GCGCCTTCCT CGACCGCGGC TGGCGGGTGA CCGGGGTGGA CTTCTGCCCG
2801 GCCATGCTCG CCCTCGCGGC GCGCTACGTC CCCGAGATGG AGCGGATCC

FIG. 1F



3HB

3HV

4HV

FIG. 2

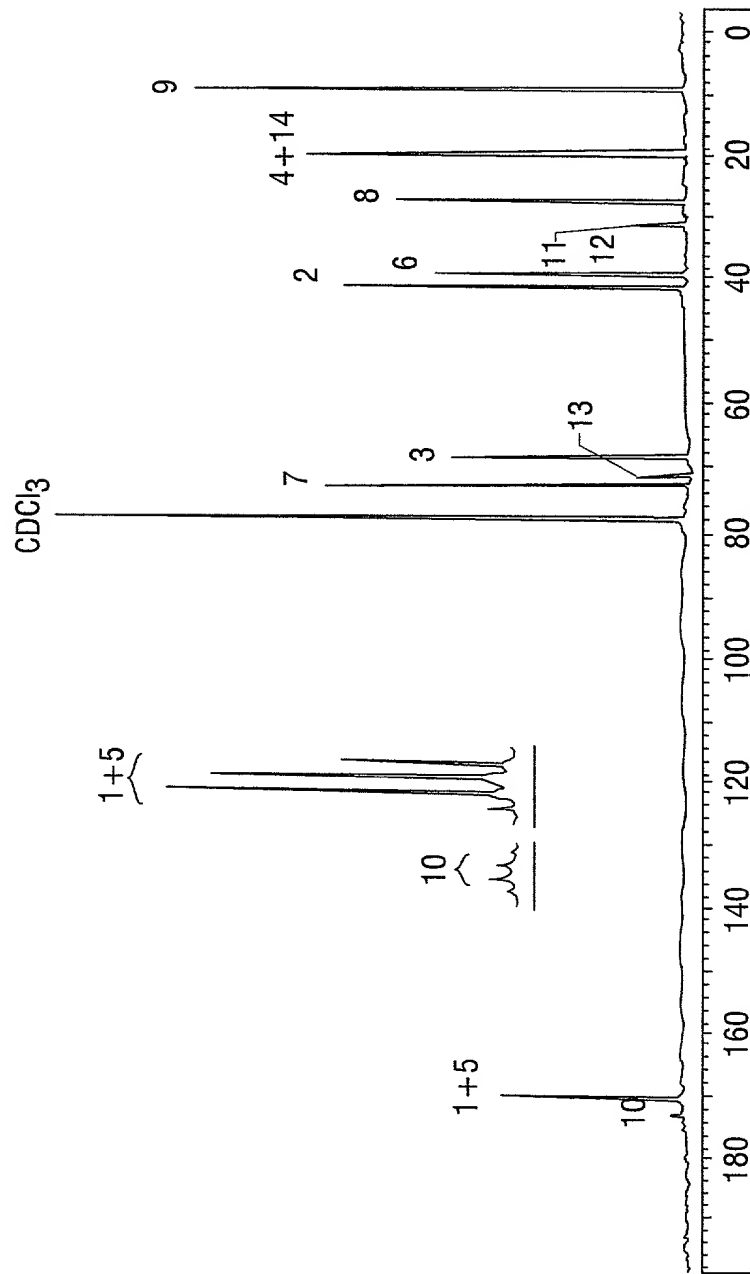


FIG. 3

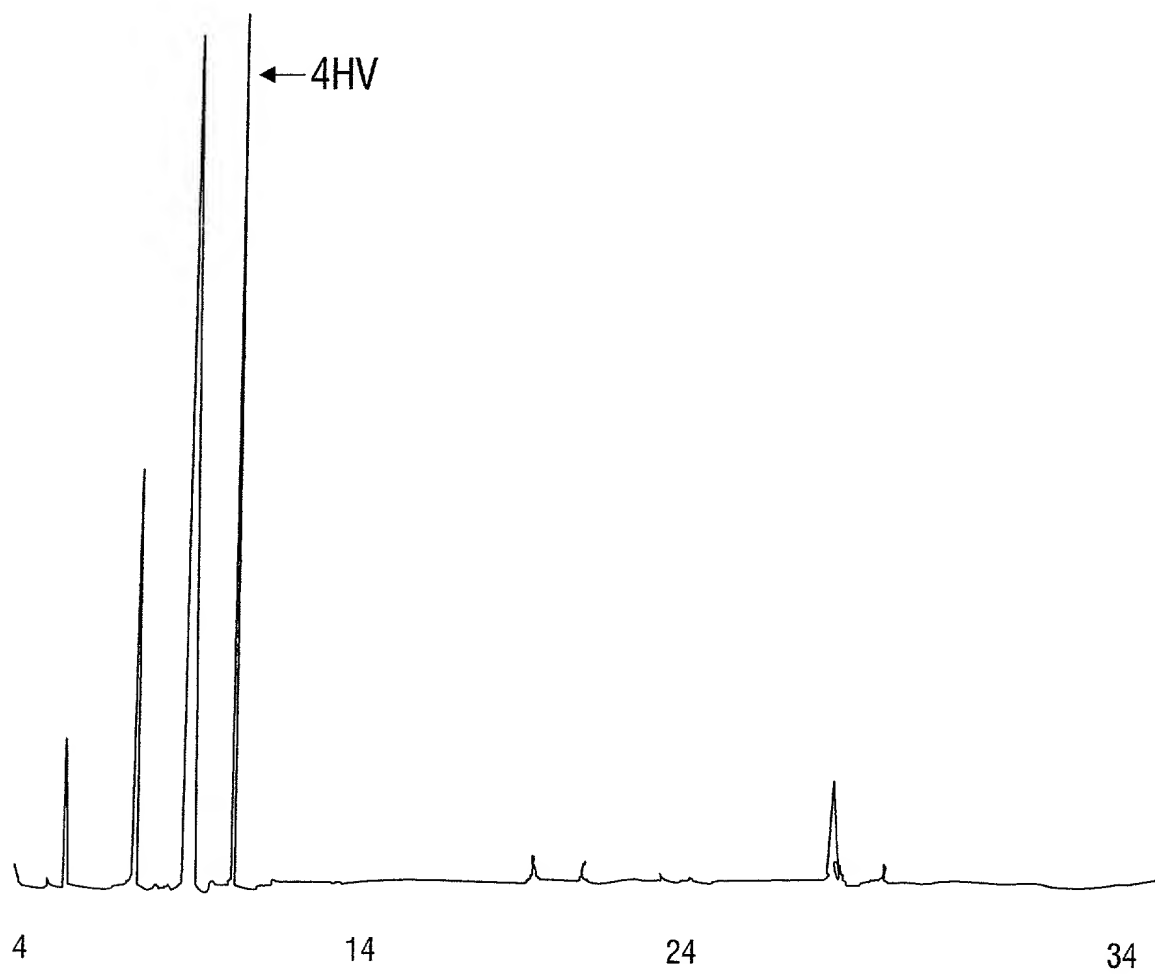


FIG. 5

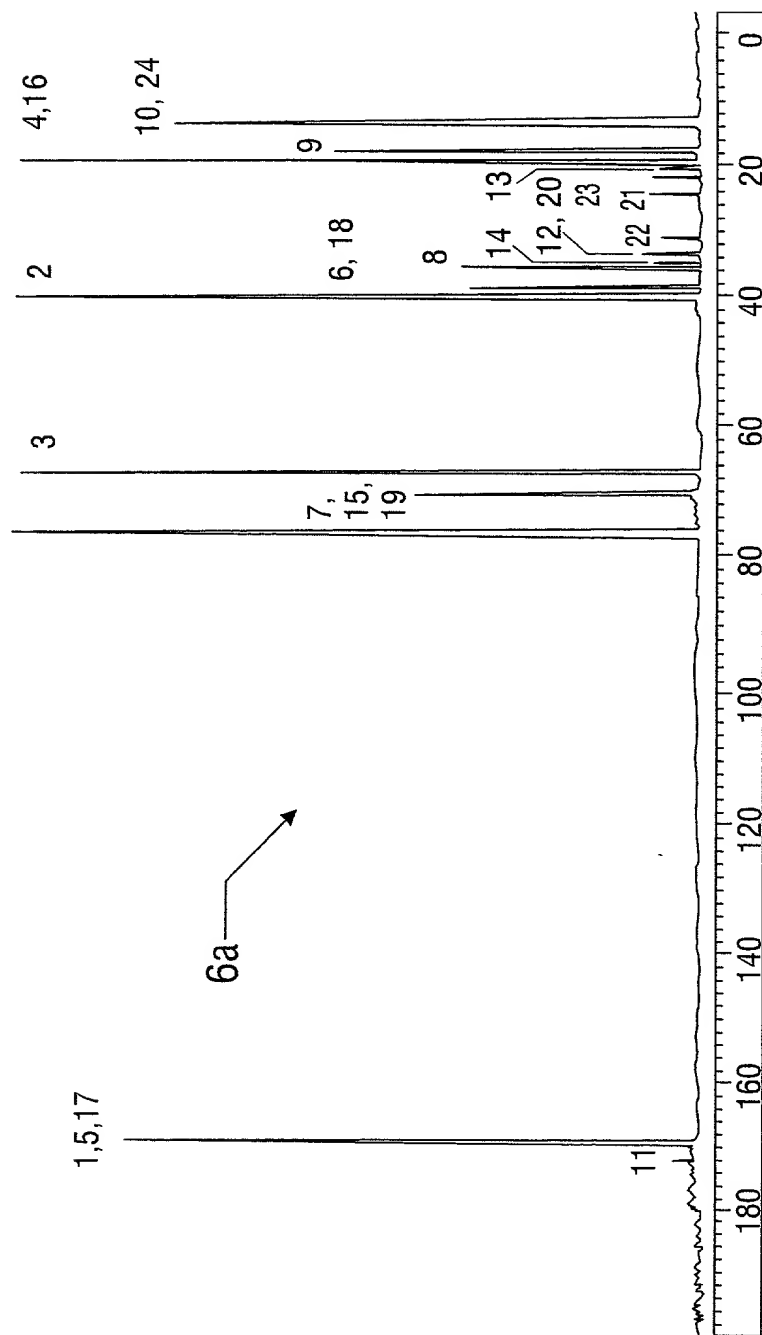
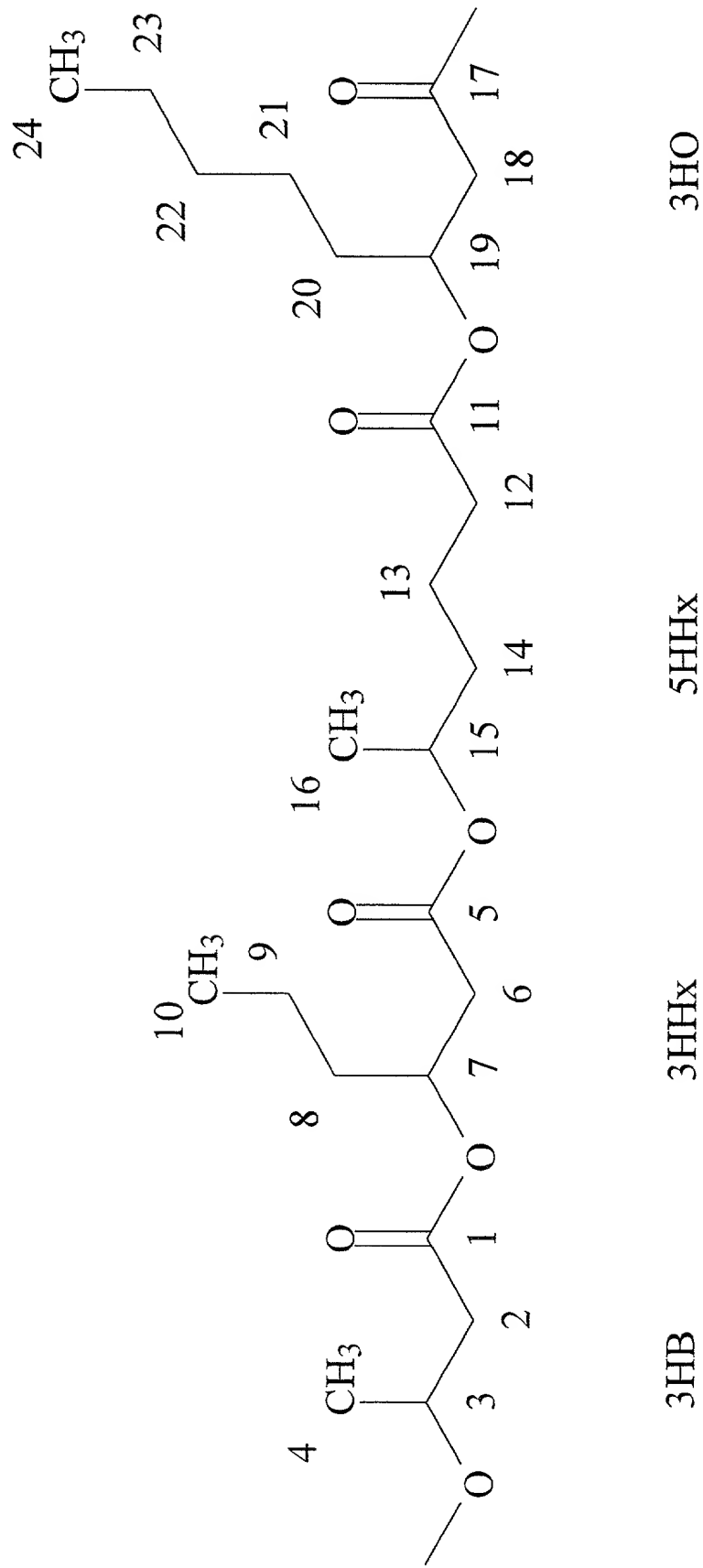


FIG. 6



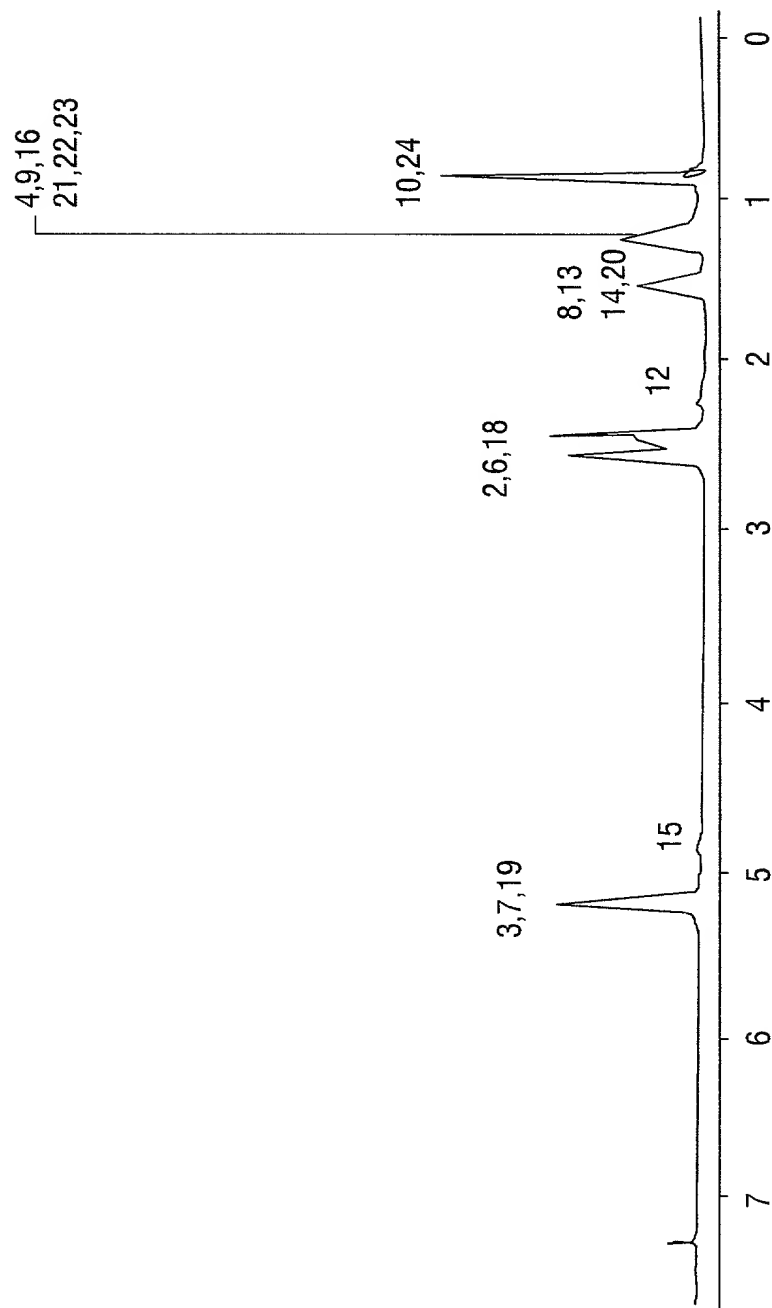


FIG. 7

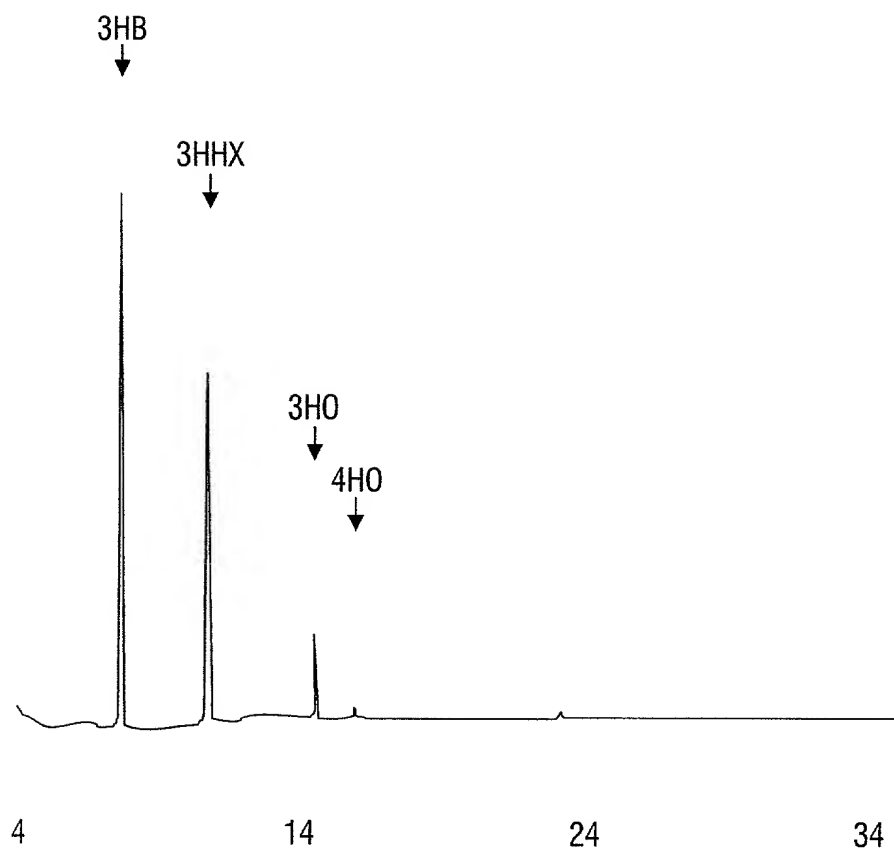


FIG. 8

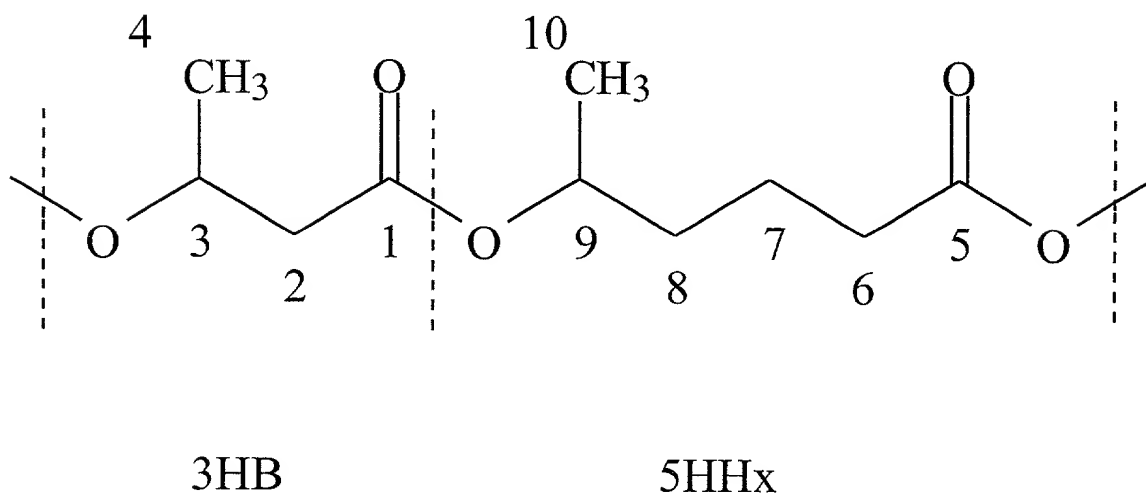


FIG. 9

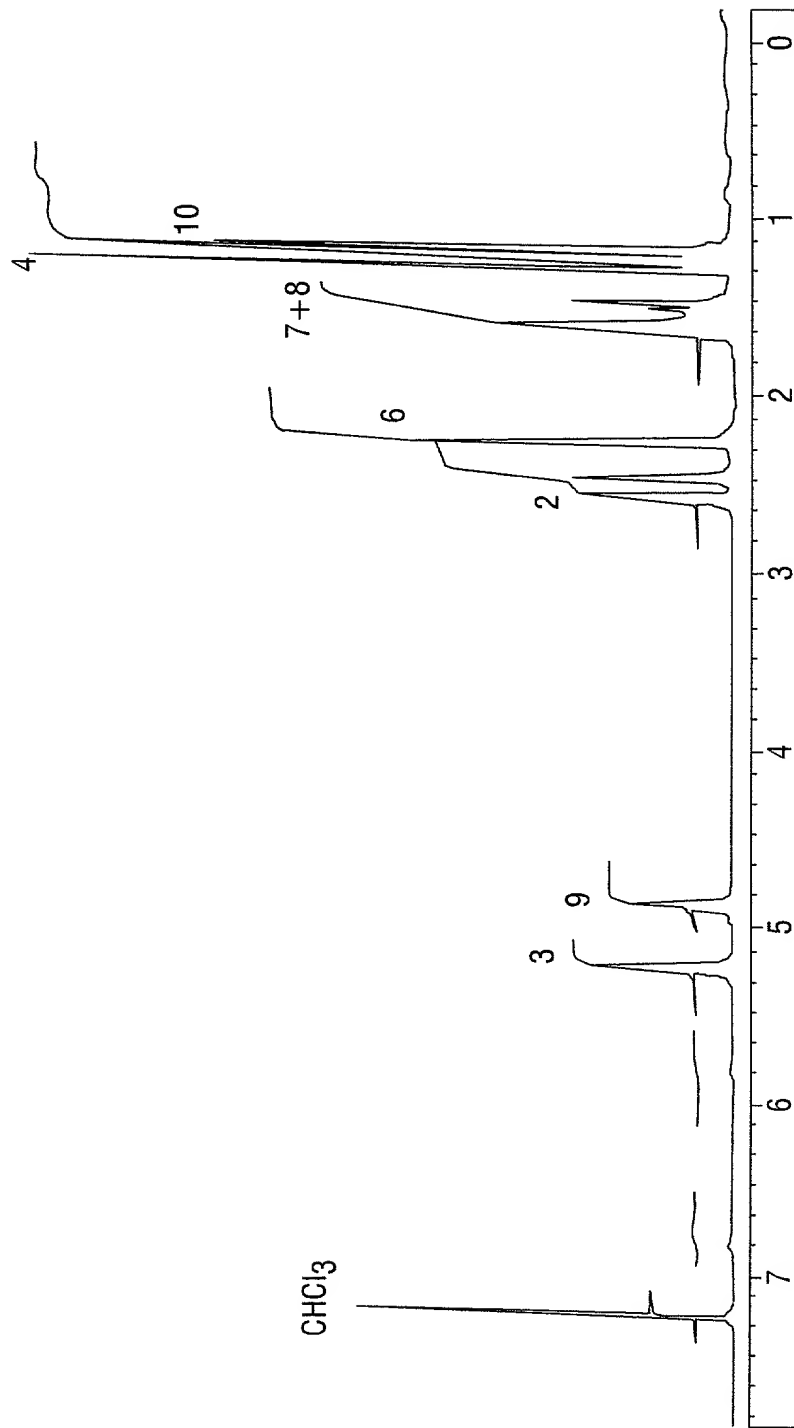


FIG. 10

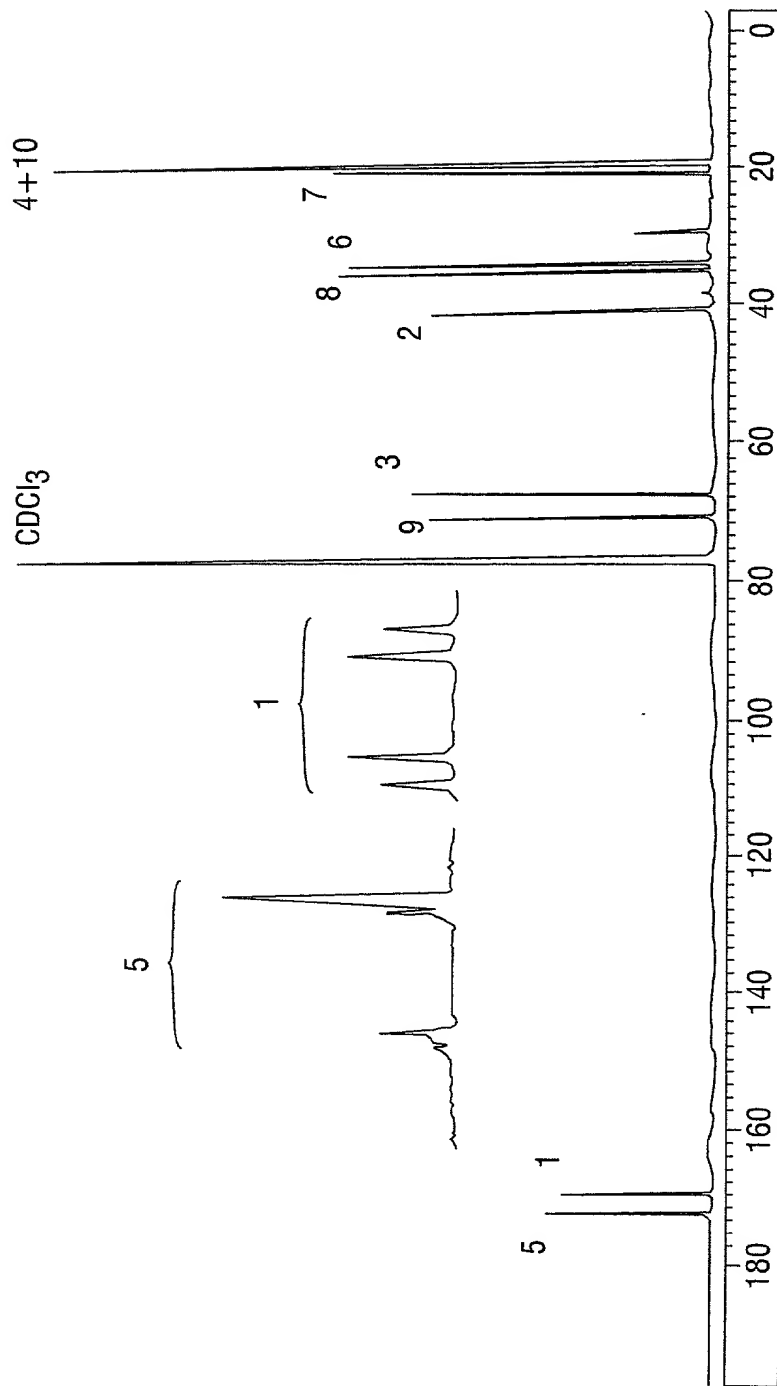


FIG. 11

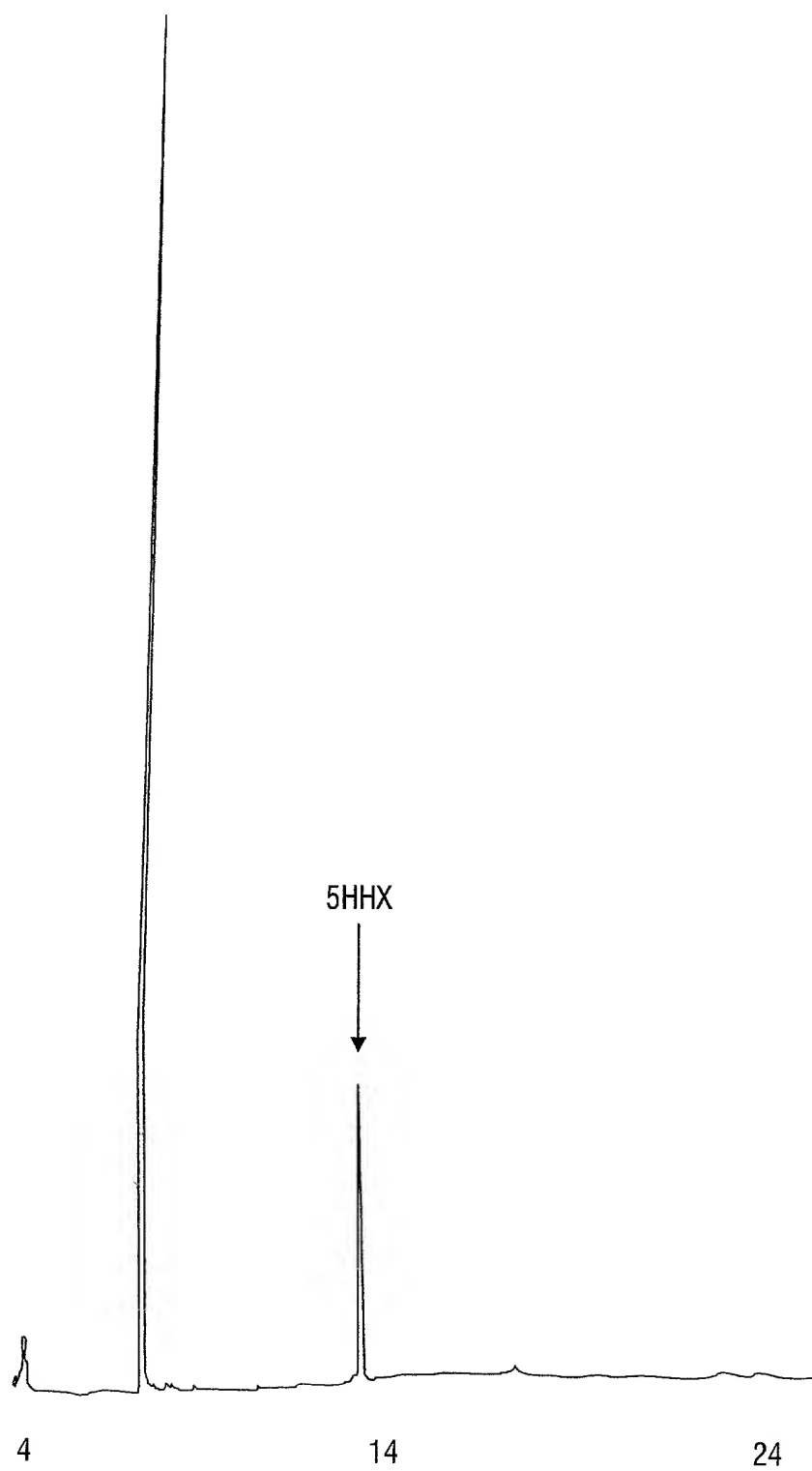
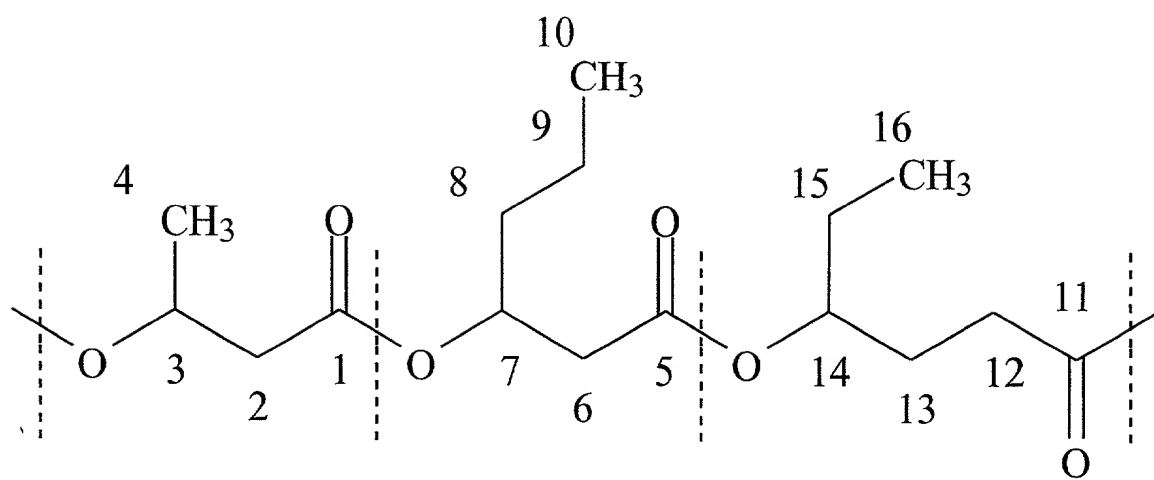


FIG. 12



3HB

3HHx

4HHx

FIG. 13

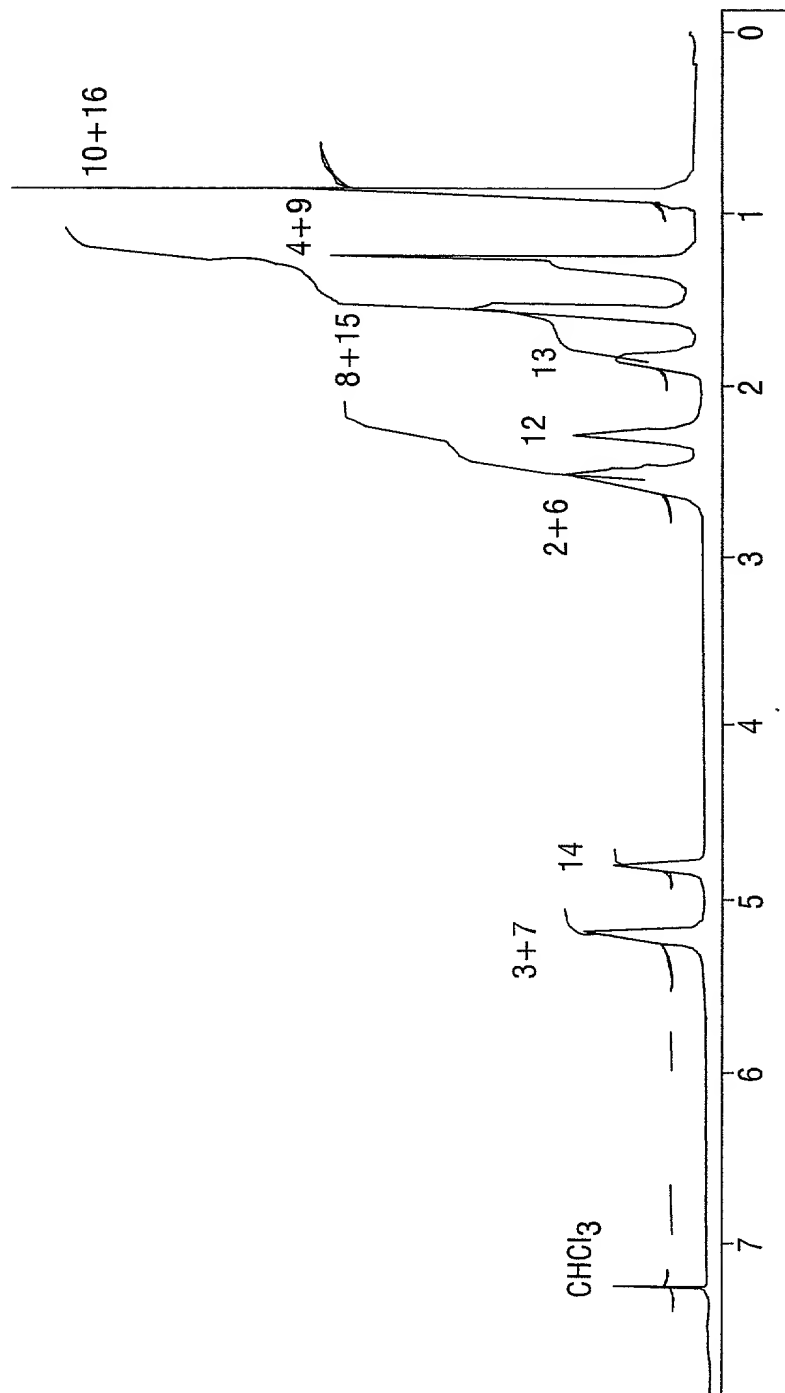


FIG. 14

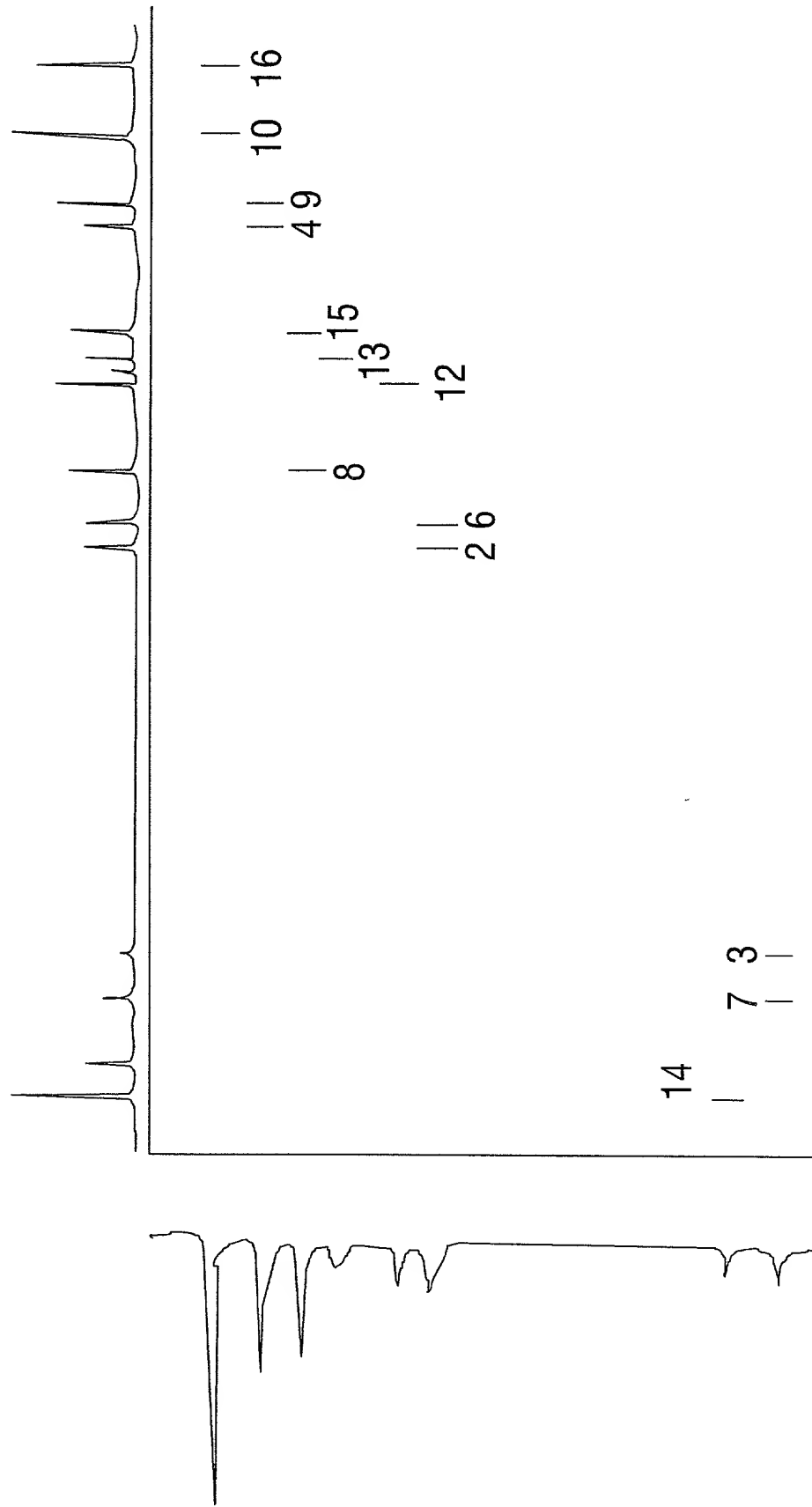


FIG. 16

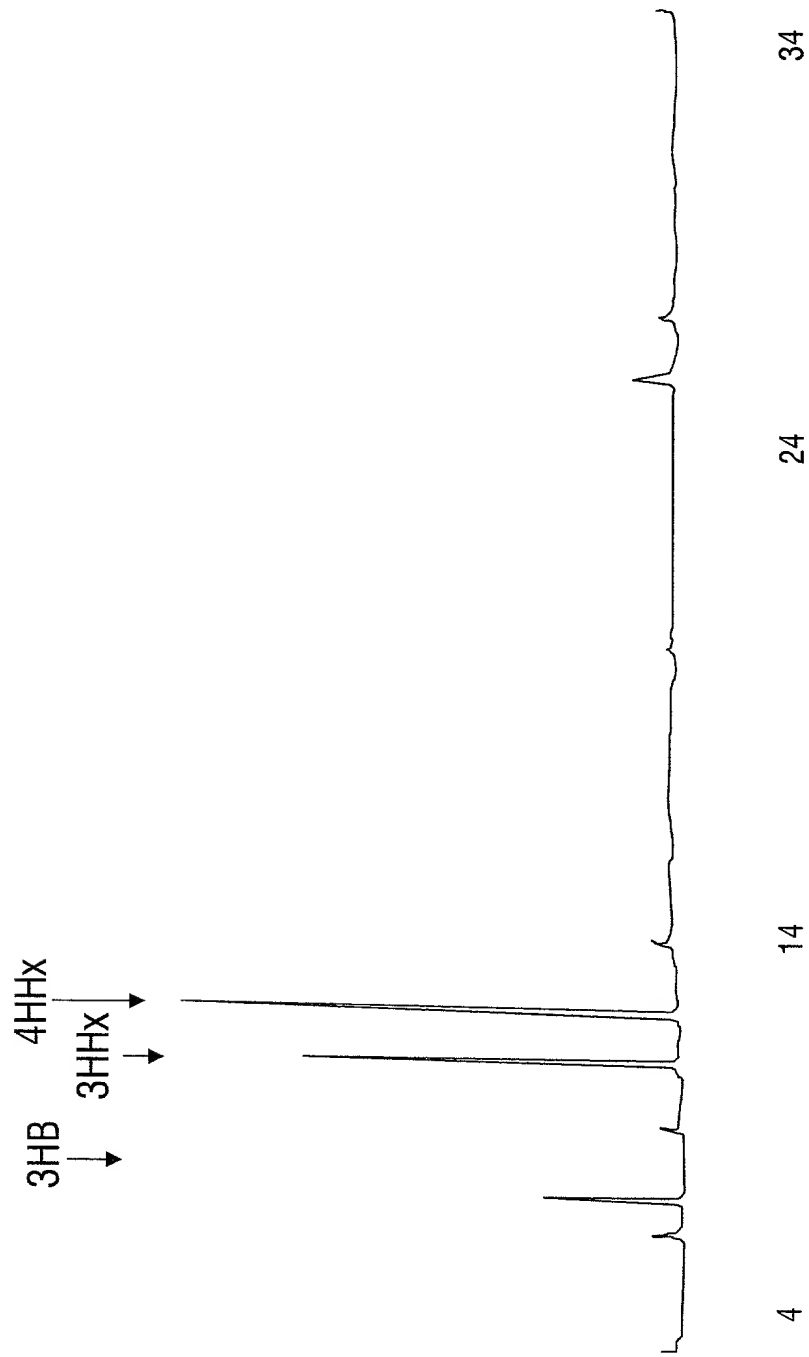


FIG. 17